Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#42H: CPCTC

Honors Geometry

Due Date: Thursday, Dec. 11th, 2014

**Failure to show all work and write in complete sentences will result in LaSalle!**

|  |  |
| --- | --- |
| 1) **GIVEN:** , *ADE* ≅ *BCE*  *DE*  *CE*    **PROVE:** *DAE* ≅ *CBE* | |
| 2) **Given:** AB BD  DB DE  C is the midpoint of BD  **Prove:** BA DE | |
| 3) **Given:** FJ≅LH, FG≅LK,  ∠FJG and ∠LHK are right angles  **Prove** ∠FGJ≅ ∠LKH | |
| 4)  a) Name the two congruent triangles. \_\_\_\_\_\_\_\_\_\_\_\_\_  b) Name the theorem that proves this. \_\_\_\_\_\_\_\_\_\_\_\_  c) Name at least one congruency according to CPCTC not already shown in the figure. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5)    a) Name the two congruent triangles. \_\_\_\_\_\_\_\_\_\_\_\_\_  b) Name the theorem that proves this. \_\_\_\_\_\_\_\_\_\_\_\_  c) Name at least one congruency according to CPCTC not already shown in the figure. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6) What does CPCTC stand for? | |

**Try your best on this proof! It is challenging but you can do it! BE PATIENT and TRY!**

|  |  |
| --- | --- |
| **Prove:** | *Note: Figure is NOT drawn to scale.*  *Hint: You* ***may*** *need to use angle addition postulate, segment addition postulate and substitution.* |